Environmental Health and Toxicology

Assigned Reading: Environmental Science, Ch. 14 p. 286 – 306

What to know
* at least five of the categories of pollutants

* two examples of voluntary exposure to toxins and potentially harmful chemicals

* the form of mercury most hazardous to human health

* the concept of dose response, and why it is that there are few known thresholds (points D, E, and F) to toxins

* the difference between LD-50 and ED - 50, and how they are used in toxicology

* the concepts of physiological and genetic and behavioral tolerance

* the difference between acute and chronic effects

* the four steps of risk assessment

* at least two examples of uncertainties in the risk assessment process which could be challenged to weaken the final assessment
Vocabulary

pollution

contamination

carcinogen

synergism

biomagnification

threshold effect

dose-response

LD - 50

ecological gradient

physiological tolerance

behavioral tolerance

 genetic tolerance

toxicology

acute effect

chronic effect

risk assessment

EMF

dioxin

methylmercury